

## **CHAPTER 2**

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### **PARTICULARS OF ORGANISATION, FUNCTIONS AND DUTIES**

The Indian Agricultural Research Institute, Pusa New Delhi, were setup in the year 1905 at a village called Pusa in North Bihar. Its establishment was greatly helped by an American Philanthropist Mr. Henry Phipps, after whom the main building in Pusa was named (i.e. Phipps from USA). After the devastating earthquake of Bihar in 1934, the Institute was shifted to its present site in New Delhi in 1936.

IARI has Nine Regional Stations located at:

Amartara & Tutikandi (Shimla), Indore (Madhya Pradesh), Kalimpong (Darjeeling, West Bengal), Pusa (Samastipur, Bihar), Karnal (Haryana), Katrain (Himachal Pradesh), Pune (Maharashtra) & Wellington (Tamil Nadu)

IARI has two Research Centres located at:

Dharwad (Karnataka), Aduthurai (Tamil Nadu) and a KVK at Shikohpur (Haryana)

The primary functions of the institute are :

(i) basic and applied research in the various branches of agricultural sciences, (ii) teaching at the post-graduate level and organization of special short-term training programmes in several aspects of agricultural sciences, both at the national and international levels and (iii) extension advisory work for improving farm productivity and socio-economic conditions of the farming community.

IARI has the status of a Deemed University since 1958 under the University Grants Commission Act of 1956 and is authorized to award Post Graduate Degrees of Master of Science and Doctor of Philosophy in Agricultural Sciences and its related basic disciplines.

#### **2.1 MISSION**

#### **2.2 MANDATE :**

#### **2.3 OBJECTIVES:**

# Mission, Mandate and Objectives

## 2.1 Mission

The primary mission of the Institute is to explore new frontiers of science and knowledge and develop human resources to provide leadership to the country in technology development and policy guidance resulting in a vibrant, responsive and resilient agriculture which must be effectively productive, eco-friendly, sustainable, economically profitable and socially equitable.

## 2.2 Mandate

To meet the above mission, the present mandate of the Institute has slightly been modified to read as follows :

- To conduct basic and strategic research with a view to understanding the processes, in all their complexity, and to undertake need-based research, that lead to crop improvement and sustained agricultural productivity in harmony with the environment.
- To serve as a centre for academic excellence in the area of post-graduate education and human resources development in agricultural sciences.
- To provide national leadership in agricultural research, extension, and technology assessment and transfer by developing new concepts and approaches and serving as a national referral point for quality and standards.
- To develop information systems, add value to information, share the information nationally and internationally, and serve as a national agricultural library and database.

## 2.3 Objectives

In order to accomplish the above mission and mandate, the Institute will pursue the

following objectives in the fields of research, education and extension :

### 2.3.1 Research

- Emphasize utilization of global plant genetic resources, including conservation of agriculturally important microbial, cyanobacterial and insect resources, to produce efficient, productive and stable genotypes of crops, especially hybrids, and improve bioenergetics.
- Generate knowledge related to the processes of production and productivity of agricultural crops leading to the development of research philosophies, concepts, methodologies, materials and technologies.
- Develop and use systems approach, crop modelling, bioindicators, nuclear tools, remote sensing and GIS to achieve greater understanding of the production systems, the resources, the environment and their sustainability and modify them to reduce the environmental and human health risks to make them more sustainable in the context of holistic ecological and socio-economic systems.
- Pay greater attention to the problems of agriculture under unfavourable conditions and to orphan commodities.
- Foster excellence in agriculture related to basic and social sciences, strengthen synergism between traditional knowledge and modern science, and harness management sciences and communication systems for improving overall efficiency.
- Develop capabilities in post-harvest technology, agro-processing, product development, value addition and utilization research on agricultural commo-

dities, by-products, agricultural wastes and renewable energy resources.

- Concentrate on new and emerging cutting edge technologies such as molecular biology and biotechnology and develop inter-disciplinary centres of excellence with modern instrumentation and foster system research.

### 2.3.2 Education

- Promote excellence, foster high standard and orient the educational programme towards future needs and opportunities.
- Strengthen physical, biological and social sciences in the curricula and add frontier areas such as biotechnology, computer application and information technology, environmental science, management science, post-harvest technology, and agricultural biodiversity and genetic resources.
- Provide opportunities for post-doctoral research, continuing education, faculty upgradation, and development of human resources in new and cutting edge technology areas, especially through international collaboration.
- Strengthen non-formal training to promote entrepreneurial skills and commercialization of agriculture.

### 2.3.3 Extension

- Generate innovative extension models, dovetail them to developmental models,

and disseminate them through regional stations, universities and state extension systems.

- Promote client oriented on-farm research and technology assessment, refinement and transfer through participatory approaches and by promoting the Institute-Village Linkage Programme.
- Foster development communication research and linkages with rural development programmes and strengthen micro-planning through inter departmental and participatory approaches.

### 2.3.4 Information

- Strengthen IARI Libaray to become the national agricultural library, fully equipped with electronic and other modern tools, connect it with libraries in SAUs, ICAR institutes and other relevant centres. Build databases on agricultural research and share them with all bonafide users throughout the world.
- Add value to information and use it for analysing impact of research and technology development on national agriculture and for setting research priorities.
- Develop a modern information and communication centre and the knowhow for dissemination of information, carry out training and promote communication on inter-personal skill enhancement.